

Scaled data based on original data using  
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-State  
Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: METALUX

Report Number: P#

Luminaire Tested: **HBLED-LD5-12HE-W-FLI-UNV-L750-ED1-U**

Issue Date: 3/3/2020

This test was performed under the Supervised Manufacturer's Testing Program. The results of this test have not been influenced by sources from within Cooper Lighting Solutions or from external interests.

**Test Information**

Test Method: LM-79-08  
Report Number: P#  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P26703)  
Test Lab: INNOVATION CENTER-P2  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: HBLED-LD5-12HE-W-FLI-UNV-L750-ED1-U  
Description: METALUX HIGH BAY LINEAR LED  
Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.    Condition    Description

**Summary**

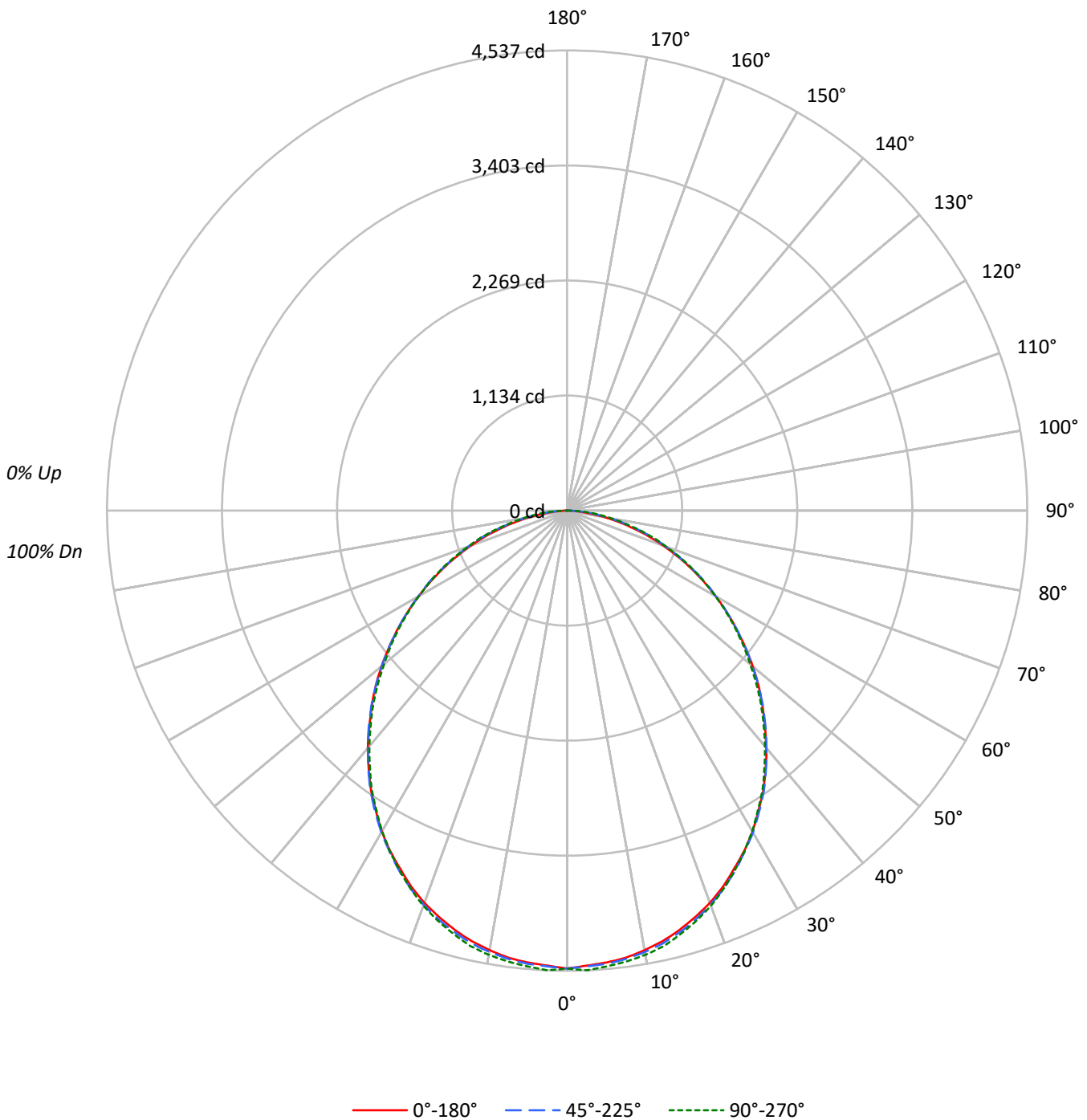
Lumens per Lamp: N/A  
Luminaire Lumens: 11794.0 lumens  
Efficiency: N/A  
Efficacy: 162.5 lumens/watt  
Spacing Criteria (0/90/45): 1.2 / 1.2 / 1.31  
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')  
CIE Type: Direct

Input Watts (W): 72.6  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Luminous Intensity Polar Plot





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**COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:**

RF	20				20				20				20				20	
RC	80				70				50				30				10	0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	109	104	100	96	106	102	98	95	98	95	92	94	91	89	90	88	86	84
2	99	91	85	79	97	89	83	78	86	81	76	83	78	74	80	76	73	71
3	91	80	72	66	88	79	71	65	76	69	64	73	68	63	71	66	62	60
4	83	71	63	56	81	70	62	56	68	61	55	65	59	54	63	58	53	51
5	77	64	55	49	75	63	54	48	61	53	48	59	52	47	57	51	47	45
6	71	58	49	42	69	57	48	42	55	47	42	53	47	42	52	46	41	39
7	66	52	44	38	64	52	43	38	50	43	37	49	42	37	47	41	37	35
8	61	48	39	34	60	47	39	34	46	39	33	45	38	33	43	37	33	31
9	57	44	36	30	56	43	36	30	42	35	30	41	35	30	40	34	30	28
10	54	41	33	28	52	40	33	28	39	32	27	38	32	27	37	31	27	25

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	6075	6075	6075
5°	6040	6057	6092
10°	6013	6037	6077
15°	5960	5992	6022
20°	5893	5921	5938
25°	5783	5816	5808
30°	5677	5692	5669
35°	5536	5550	5515
40°	5370	5370	5329
45°	5182	5196	5143
50°	5004	4996	4933
55°	4788	4788	4745
60°	4556	4561	4543
65°	4294	4337	4348
70°	3966	4074	4079
75°	3505	3732	3790
80°	2875	3268	3453
85°	1995	2743	3103



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	427.0	3.6
10°-20°	1214.8	10.3
20°-30°	1805.2	15.3
30°-40°	2110.8	17.9
40°-50°	2104.5	17.8
50°-60°	1825.9	15.5
60°-70°	1348.7	11.4
70°-80°	755.1	6.4
80°-90°	201.5	1.7
90°-100°	0.6	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	3447.0	29.2
0°-40°	5557.8	47.1
0°-60°	9488.2	80.4
0°-90°	11793.4	100.0
90°-120°	0.6	0.0
90°-150°	0.6	0.0
90°-180°	1.0	0.0
0°-180°	11794.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	4515	4515	4515	4515	4515	
5°	4472	4500	4485	4505	4510	425
15°	4279	4309	4302	4323	4323	1207
25°	3896	3927	3918	3926	3912	1796
35°	3371	3400	3379	3379	3358	2105
45°	2723	2752	2731	2720	2703	2102
55°	2041	2055	2041	2038	2023	1825
65°	1349	1362	1362	1369	1366	1334
75°	674	694	718	723	729	718
85°	129	156	178	194	201	157
90°	0	3	3	8	7	5
95°	0	0	0	0	0	0
105°	0	0	0	0	0	0
115°	0	0	0	0	0	0
125°	0	0	0	0	0	0
135°	0	0	0	0	0	0
145°	0	0	0	0	0	0
155°	0	0	0	0	0	0
165°	0	0	0	0	0	0
175°	0	0	0	0	0	0
180°	0	0	0	0	0	0



TEST NUMBER: P#

CATALOG NUMBER: HBLED-LD5-12HE-W-FLI-UNV-L750-ED1-U

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	4515.1	4515.1	4515.1	4515.1	4515.1
2.5°	4490.4	4517.1	4498.4	4516.2	4536.9
5°	4472.3	4500.4	4484.9	4504.7	4510.5
7.5°	4445.9	4473.2	4458.2	4478.0	4484.1
10°	4401.1	4430.7	4418.9	4441.3	4447.6
12.5°	4348.8	4376.7	4368.9	4395.1	4399.4
15°	4278.8	4308.6	4302.0	4322.7	4323.0
17.5°	4201.2	4229.4	4224.5	4240.6	4240.0
20°	4115.4	4145.5	4135.2	4152.7	4147.3
22.5°	4013.8	4045.9	4033.0	4047.6	4033.9
25°	3895.7	3927.0	3917.9	3926.5	3912.1
27.5°	3781.5	3810.2	3791.2	3801.6	3786.3
30°	3654.0	3678.4	3663.7	3667.2	3648.8
32.5°	3510.7	3539.7	3521.9	3521.3	3501.8
35°	3370.6	3400.2	3379.2	3378.6	3357.7
37.5°	3215.5	3243.1	3218.4	3219.8	3195.4
40°	3057.3	3081.2	3057.3	3056.2	3033.8
42.5°	2885.6	2917.2	2895.4	2898.0	2868.1
45°	2723.4	2752.4	2730.9	2719.7	2703.0
47.5°	2561.7	2574.4	2556.6	2553.7	2530.2
50°	2390.6	2400.1	2386.6	2383.2	2356.7
52.5°	2213.8	2230.1	2212.9	2208.3	2190.8
55°	2040.9	2055.0	2041.2	2037.7	2022.8
57.5°	1866.9	1885.3	1871.2	1867.8	1855.7
60°	1692.9	1698.4	1694.9	1700.1	1688.3
62.5°	1520.1	1532.7	1536.7	1535.3	1526.1
65°	1348.6	1361.8	1362.1	1369.0	1365.6
67.5°	1173.2	1190.4	1195.3	1202.5	1205.6
70°	1008.1	1021.3	1035.7	1040.0	1036.8
72.5°	841.9	863.1	879.2	882.9	896.4
75°	674.2	694.3	717.8	723.0	729.0
77.5°	518.6	545.3	566.5	573.4	580.9
80°	371.0	400.5	421.8	431.3	445.6
82.5°	243.5	273.6	295.2	304.6	322.2
85°	129.2	156.2	177.7	193.5	201.0
87.5°	38.2	61.2	73.5	78.1	84.7
90°	0.0	2.9	3.4	7.8	7.2
92.5°	0.0	0.0	0.0	0.0	0.0
95°	0.0	0.0	0.0	0.0	0.0
97.5°	0.0	0.0	0.0	0.0	0.0
100°	0.0	0.0	0.0	0.0	0.0
102.5°	0.0	0.0	0.0	0.0	0.0
105°	0.0	0.0	0.0	0.0	0.0
107.5°	0.0	0.0	0.0	0.0	0.0
110°	0.0	0.0	0.0	0.0	0.0



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	0.0	0.0	0.0	0.0	0.0
115°	0.0	0.0	0.0	0.0	0.0
117.5°	0.0	0.0	0.0	0.0	0.0
120°	0.0	0.0	0.0	0.0	0.0
122.5°	0.0	0.0	0.0	0.0	0.0
125°	0.0	0.0	0.0	0.0	0.0
127.5°	0.0	0.0	0.0	0.0	0.0
130°	0.0	0.0	0.0	0.0	0.0
132.5°	0.0	0.0	0.0	0.0	0.0
135°	0.0	0.0	0.0	0.0	0.0
137.5°	0.0	0.0	0.0	0.0	0.0
140°	0.0	0.0	0.0	0.0	0.0
142.5°	0.0	0.0	0.0	0.0	0.0
145°	0.0	0.0	0.0	0.0	0.0
147.5°	0.0	0.0	0.0	0.0	0.0
150°	0.0	0.0	0.0	0.0	0.0
152.5°	0.0	0.0	0.0	0.0	0.0
155°	0.0	0.0	0.0	0.0	0.0
157.5°	0.0	0.0	0.0	0.0	0.0
160°	0.0	0.0	0.0	0.0	0.0
162.5°	0.0	0.0	0.0	0.0	0.0
165°	0.0	0.0	0.0	0.0	0.0
167.5°	0.0	0.0	0.0	0.0	0.0
170°	0.0	0.0	0.0	0.0	0.0
172.5°	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0
177.5°	0.0	0.0	0.0	0.0	0.0
180°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)